

Fig.3A

DETECTED (OC VOLTAGE
Vpn	240V

FIRST CORRECTED MOTOR VOLTAGE COMMAND						
V _{uh1} *	200V					
V _{vh1} *	90∨					
V _{wh1} *	0V					

SECOND CORRECTED MOTOR VOLTAGE COMMAN								
V _l	uh2*	200V						
V	/h2*	90V						
V	vh2*	0V						

Fig.3B

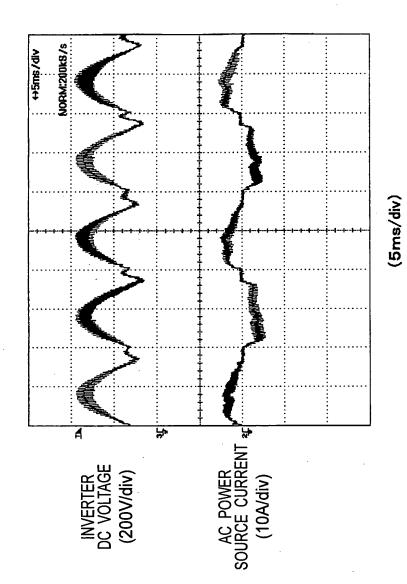
DETECTED [OC VOLTAGE
Vpn	240V

FIRST CORRECTED MOTOR VOLTAGE COMMAND							
V _{uh1} *	300V						
V _{vh1} *	180V						
V _{wh1*}	0V						

SECOND CORRECTED MOTOR VOLTAGE COMMAND							
V _{uh2} *	200V						
V _{vh2} *	144V						
V _{wh2} *	0V						

NORM:200KB/s ++5m\$/div (5ms/div) AC POWER SOURCE CURRENT ₂E A INVERTER DC VOLTAGE (200V/div) Fig.4

Fig.5



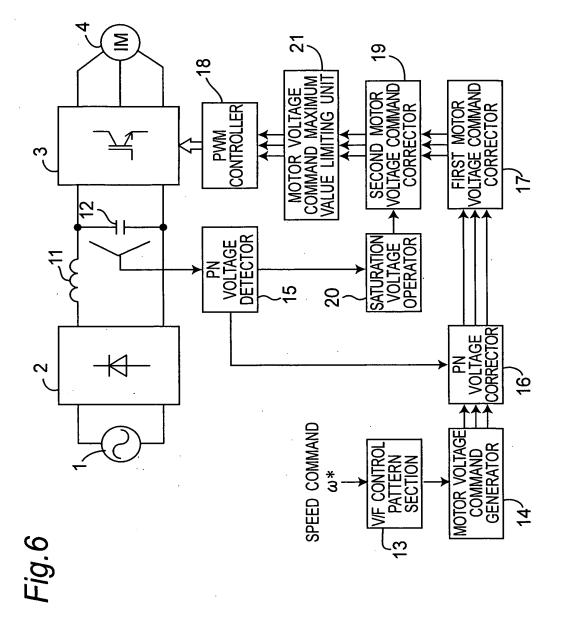


Fig.7A

DETECTED [OC VOLTAGE						
Vpn	240V						
SPEED C	OMMAND						
К	1.2						
FIRST CORRECTED MOTOR VOLTAGE COMMAND			SECOND C MOTOR VOLTA		-	THIRD CO MOTOR VOLTA	RRECTED GE COMMAND
V _{uh1*}	200V	-	V _{uh2} *	200V	-	V _{uh3*}	200V
V _{vh1} *	90V		V _{vh2} *	90V		V _{vh3} *	90V
V _{wh1} *	0V		V _{wh2} *	0V		V _{wh3} *	0V

Fig.7B

DETECTED DC VOLTAGE							
Vpn	240V						
SPEED COMMAND							
К	1.2	İ					
FIRST CORRECTED MOTOR VOLTAGE COMMAND			SECOND C	ORRECTED GE COMMAND		THIRD CC MOTOR VOLTA	
V _{uh1} *	300∨	→	V _{uh2} *	288V	→	V _{uh3} *	240V
V _{vh1} *	180V		V _{vh2} *	172.8V		V _{vh3} *	172.8V
V _{wh1} *	0V		V _{wh2} *	0V		V _{wh3*}	0V
		-			-		

VOLTAGE SATURATION RATE K

1.2

1.0

SPEED COMMAND $\omega*$ (Hz)

100

VOLTAGE SATURATION RATE K Fig.9

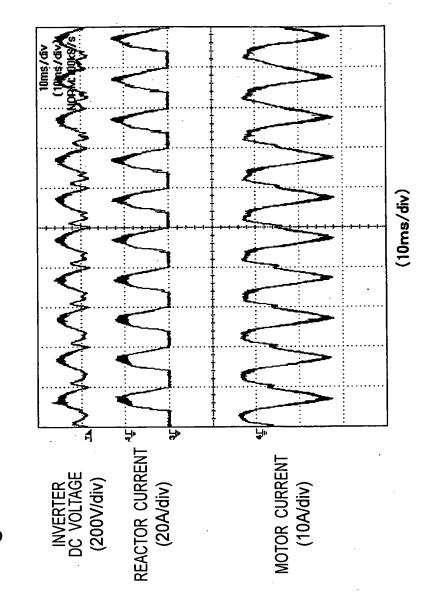
SPEED COMMAND $\omega*$ (Hz)

110

100

(10ms/div) REACTOR CURRENT (10A/div) MOTOR CURRENT (10A/div) INVERTER DC VOLTAGE (200V/div) Fig. 10

Fig. 11



2ms/div (2ms/div) NORM:500KS/ MOTOR CURRENT (10A/div) REACTOR CURRENT (10A/div) INVERTER DC VOLTAGE (200V/div) Fig. 12

(2ms/div)

Fig. 13

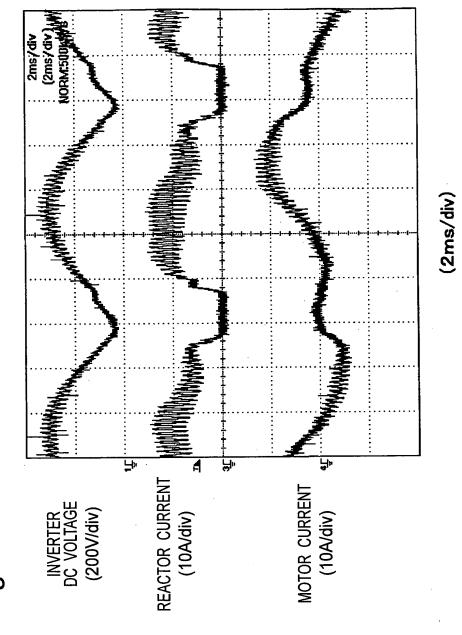
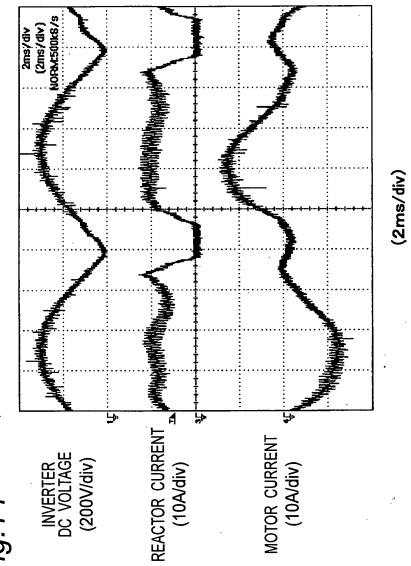


Fig. 14



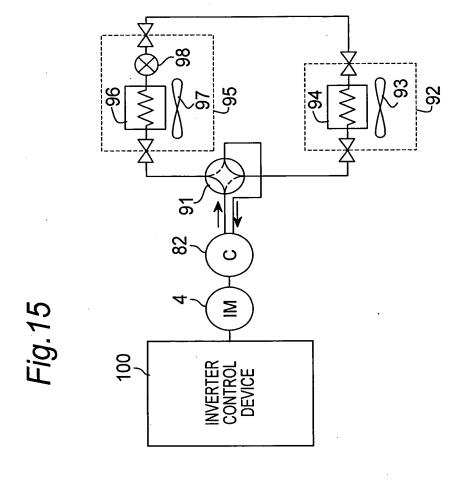
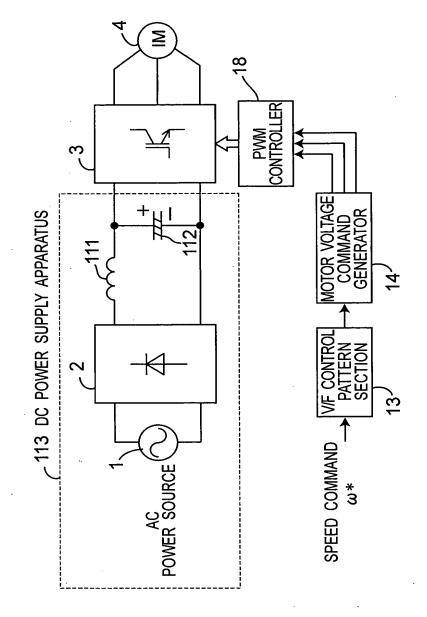
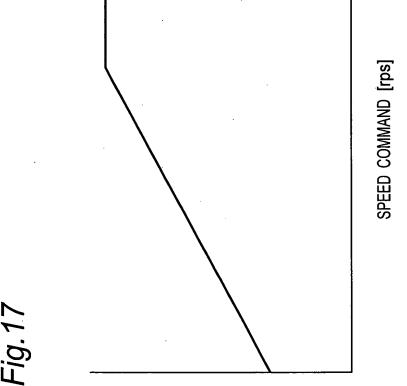


Fig. 16





MOTOR VOLTAGE [V]

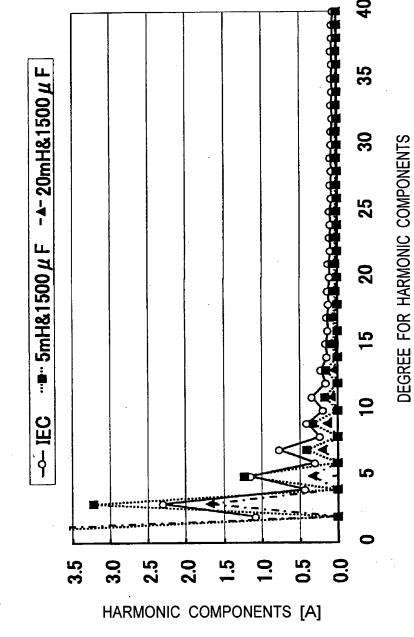


Fig. 18

Fig. 19